

Supplementary Material

Tab. S1 - Potential functions of different plant species in SRCs, forest ecosystems and agroecosystems. (A) Species-level services and disservices in short rotation coppices (3 sampling plots of 25 m² over 6 years). Note: ucl – unclassified (in share of native plants: species of uncertain residence status; in remediation: herbs).

Nature conservation - species richness	Share of native plants	Remediation	Collectables (edible and medical plants)	Pasture and fodder	Melliferous and pollination potential	Weed competition	Biological invasions	Toxicity	Allergenic plants
<i>Acer pseudoplatanus</i>	yes	yes	yes	yes	yes	no	no	no	yes
<i>Amaranthus powellii</i>	no	ucl	yes	no	no	yes	no	yes	no
<i>Amaranthus retroflexus</i>	no	ucl	yes	no	no	yes	yes	yes	yes
<i>Anagallis arvensis</i>	no	ucl	yes	no	no	yes	no	yes	no
<i>Artemisia vulgaris</i>	yes	ucl	yes	yes	no	yes	no	yes	yes
<i>Aster novi-belgii</i>	no	ucl	no	no	yes	no	yes	no	yes
<i>Atriplex patula</i>	ucl	ucl	yes	yes	no	yes	no	no	yes
<i>Bromus sterilis</i>	no	ucl	yes	yes	no	no	no	no	yes
<i>Calamagrostis epigejos</i>	yes	ucl	yes	yes	no	no	no	no	no
<i>Calystegia sepium</i>	yes	ucl	yes	no	yes	no	no	no	no
<i>Capsella bursa-pastoris</i>	no	ucl	yes	yes	no	yes	no	yes	no
<i>Cardaria draba</i>	no	ucl	yes	no	no	yes	yes	no	yes
<i>Cerasus avium</i>	yes	yes	yes	yes	yes	no	no	no	no
<i>Chenopodium album</i>	ucl	ucl	yes	yes	no	yes	no	yes	yes
<i>Cirsium arvense</i>	yes	ucl	yes	yes	yes	yes	no	yes	no
<i>Cirsium palustre</i>	yes	ucl	no	yes	yes	no	no	yes	no
<i>Clematis vitalba</i>	yes	ucl	yes	no	yes	no	no	yes	no
<i>Conium maculatum</i>	no	ucl	no	no	no	no	no	yes	no
<i>Convolvulus arvensis</i>	no	ucl	yes	yes	yes	yes	no	yes	no
<i>Conyza canadensis</i>	no	ucl	no	no	no	yes	yes	no	yes
<i>Crataegus laevigata</i>	yes	yes	yes	no	yes	no	no	no	no
<i>Cucubalus baccifer</i>	yes	ucl	yes	no	no	no	no	no	no
<i>Daucus carota</i>	yes	ucl	yes	yes	yes	yes	no	no	yes
<i>Dipsacus fullonum</i>	yes	ucl	yes	no	yes	no	no	no	no
<i>Echinochloa crus-galli</i>	no	ucl	yes	yes	no	yes	yes	no	no
<i>Elytrigia repens</i>	yes	ucl	yes	yes	no	yes	no	no	yes

Nature conservation - species richness	Share of native plants	Remediation	Collectables (edible and medical plants)	Pasture and fodder	Melliferous and pollination potential	Weed competition	Biological invasions	Toxicity	Allergenic plants
<i>Epilobium hirsutum</i>	yes	ucl	yes	no	yes	no	no	yes	no
<i>Equisetum arvense</i>	yes	ucl	yes	no	no	yes	no	yes	no
<i>Eupatorium cannabinum</i>	yes	ucl	no	no	yes	no	no	yes	no
<i>Fallopia convolvulus</i>	no	ucl	yes	yes	no	yes	no	yes	no
<i>Fraxinus excelsior</i>	yes	yes	no	yes	yes	no	no	no	yes
<i>Galinsoga parviflora</i>	no	ucl	no	yes	no	yes	yes	yes	no
<i>Galium aparine</i>	yes	ucl	yes	yes	yes	yes	no	no	no
<i>Geum urbanum</i>	yes	ucl	yes	yes	yes	no	no	no	no
<i>Helianthus annuus</i>	no	ucl	yes	yes	yes	no	no	no	no
<i>Humulus lupulus</i>	yes	yes	yes	no	no	no	no	no	yes
<i>Hypericum maculatum</i>	yes	ucl	yes	yes	yes	no	no	yes	yes
<i>Lactuca serriola</i>	no	ucl	yes	no	no	yes	no	yes	yes
<i>Lamium purpureum</i>	no	ucl	yes	yes	yes	yes	no	no	no
<i>Lapsana communis</i>	yes	ucl	yes	yes	yes	no	no	no	no
<i>Lathyrus tuberosus</i>	no	ucl	yes	yes	yes	yes	no	no	no
<i>Lycium barbarum</i>	no	ucl	yes	no	yes	no	yes	yes	no
<i>Mentha longifolia</i>	yes	ucl	yes	yes	yes	no	no	yes	yes
<i>Mercurialis annua</i>	no	ucl	yes	no	no	yes	no	yes	yes
<i>Padus serotina</i>	yes	no	yes	no	no	no	no	no	no
<i>Parthenocissus quinquefolia</i>	no	yes	yes	no	no	no	no	no	no
<i>Persicaria lapathifolia</i>	yes	ucl	yes	no	no	yes	no	no	yes
<i>Picris hieracioides</i>	yes	ucl	yes	yes	yes	no	no	no	no
<i>Plantago media</i>	yes	ucl	yes	yes	yes	yes	no	no	no
<i>Poa annua</i>	yes	ucl	yes	yes	no	yes	no	no	yes
<i>Poa pratensis</i>	yes	ucl	yes	yes	yes	no	no	no	yes
<i>Prunus domestica</i>	no	no	yes	no	no	no	no	no	no
<i>Quercus petraea</i>	yes	no	yes	yes	yes	no	no	no	yes
<i>Raphanus raphanistrum</i>	no	ucl	yes	yes	yes	yes	no	yes	no
<i>Robinia pseudoacacia</i>	no	yes	yes	yes	yes	no	yes	yes	yes
<i>Rosa canina</i>	yes	no	yes	no	yes	no	no	no	no
<i>Rubus caesius</i>	yes	no	yes	no	yes	yes	no	no	no
<i>Rumex crispus</i>	yes	ucl	yes	yes	no	yes	no	yes	yes
<i>Sambucus nigra</i>	yes	yes	yes	no	yes	no	no	yes	yes

Nature conservation - species richness	Share of native plants	Remediation	Collectables (edible and medical plants)	Pasture and fodder	Melliferous and pollination potential	Weed competition	Biological invasions	Toxicity	Allergenic plants
<i>Senecio vulgaris</i>	no	ucl	yes	no	yes	yes	no	yes	no
<i>Setaria viridis</i>	no	ucl	yes	yes	no	yes	no	no	no
<i>Solanum nigrum</i>	no	ucl	no	no	no	yes	no	no	no
<i>Sonchus oleraceus</i>	no	ucl	yes	yes	no	yes	no	no	no
<i>Stachys palustris</i>	yes	ucl	no	no	yes	yes	no	yes	no
<i>Stellaria media</i>	yes	ucl	yes	yes	yes	yes	no	yes	no
<i>Stenactis annua</i>	no	ucl	no	yes	no	no	yes	no	no
<i>Swida sanguinea</i>	yes	no	yes	yes	yes	no	no	no	no
<i>Symphytum officinale</i>	yes	ucl	yes	yes	yes	no	no	no	no
<i>Tanacetum vulgare</i>	ucl	ucl	yes	no	yes	no	no	yes	yes
<i>Taraxacum sect. Ruderalia</i>	yes	ucl	yes	yes	yes	yes	no	no	yes
<i>Thlaspi arvense</i>	no	ucl	yes	no	no	yes	no	yes	no
<i>Tithymalus cyparissias</i>	yes	ucl	no	no	no	yes	no	yes	yes
<i>Torilis japonica</i>	yes	ucl	no	yes	no	no	no	no	no
<i>Tripleurospermum perforatum</i>	no	ucl	yes	yes	yes	yes	no	no	no
<i>Tussilago farfara</i>	yes	ucl	yes	yes	yes	yes	no	no	no
<i>Urtica dioica</i>	yes	ucl	yes	yes	no	no	no	no	yes
<i>Veronica persica</i>	no	ucl	no	no	yes	yes	no	no	no
<i>Viola arvensis</i>	no	ucl	yes	yes	yes	yes	no	no	no
<i>Vitis vulpina</i>	yes	no	no	no	no	no	no	no	no

Tab. S2 - Potential functions of different plant species in SRCs, forest ecosystems and agroeco-systems. (B) Species-level services and disservices in forest ecosystems (3 sampling plots of 25 m² over 6 years). Note: ucl – unclassified (in share of native plants: species of uncertain residence status; in remediation: herbs).

Nature conservation -species richness	Share of native plants	Remediation	Collectables (edible and medical plants)	Pasture and fodder	Melliferous and pollination potential	Weed competition	Biological invasions	Toxicity	Allergenic plants
<i>Acer campestre</i>	yes	yes	yes	yes	yes	no	no	no	no
<i>Ajuga reptans</i>	yes	ucl	yes	yes	yes	no	no	no	no
<i>Alliaria petiolata</i>	yes	ucl	yes	yes	no	no	no	yes	no
<i>Allium scorodoprasum</i>	yes	ucl	yes	no	no	no	no	yes	no
<i>Anthriscus sylvestris</i>	yes	ucl	yes	yes	yes	no	no	no	no
<i>Carpinus betulus</i>	yes	yes	no	yes	yes	no	no	no	yes
<i>Cerasus avium</i>	yes	yes	yes	yes	yes	no	no	no	no
<i>Conium maculatum</i>	no	ucl	no	no	no	no	no	yes	no
<i>Crataegus monogyna</i>	yes	yes	yes	no	yes	no	no	no	no
<i>Dryopteris filix-mas</i>	yes	ucl	yes	yes	no	no	no	yes	no
<i>Fallopia convolvulus</i>	no	ucl	yes	yes	no	yes	no	yes	no
<i>Ficaria verna</i>	yes	ucl	yes	no	no	no	no	no	no
<i>Fragaria moschata</i>	yes	ucl	yes	yes	yes	no	no	no	no
<i>Fraxinus excelsior</i>	yes	yes	no	yes	yes	no	no	no	yes
<i>Galium aparine</i>	yes	ucl	yes	yes	yes	yes	no	no	no
<i>Geranium robertianum</i>	yes	ucl	no	yes	yes	no	no	no	no
<i>Geum urbanum</i>	yes	ucl	yes	yes	yes	no	no	no	no
<i>Glechoma hederacea</i>	yes	ucl	yes	yes	yes	no	no	yes	no
<i>Impatiens parviflora</i>	no	ucl	no	yes	no	no	yes	no	no
<i>Lathyrus niger</i>	yes	ucl	yes	no	yes	no	no	no	no
<i>Ligustrum vulgare</i>	yes	yes	yes	yes	yes	no	no	yes	yes
<i>Melica uniflora</i>	yes	ucl	no	yes	no	no	no	no	no
<i>Melittis melissophyllum</i>	yes	ucl	yes	no	yes	no	no	no	no
<i>Ornithogalum umbellatum</i>	yes	ucl	yes	no	no	no	no	yes	no
<i>Poa nemoralis</i>	yes	ucl	yes	yes	no	no	no	no	no
<i>Polygonatum latifolium</i>	yes	ucl	yes	yes	no	no	no	yes	no
<i>Polygonatum odoratum</i>	yes	ucl	yes	yes	no	no	no	yes	no
<i>Prunus spinosa</i>	yes	no	yes	yes	yes	no	no	no	no

Nature conservation -species richness	Share of native plants	Remediation	Collectables (edible and medical plants)	Pasture and fodder	Melliferous and pollination potential	Weed competition	Biological invasions	Toxicity	Allergenic plants
<i>Quercus cerris</i>	yes	no	yes	yes	yes	no	no	no	yes
<i>Quercus dalechampii</i>	yes	yes	yes	yes	yes	no	no	no	yes
<i>Robinia pseudoacacia</i>	no	yes	yes	yes	yes	no	yes	yes	yes
<i>Rosa canina</i>	yes	no	yes	no	yes	no	no	no	no
<i>Rubus caesius</i>	yes	no	yes	no	yes	yes	no	no	no
<i>Sambucus nigra</i>	yes	yes	yes	no	yes	no	no	yes	yes
<i>Solidago gigantea</i>	no	ucl	yes	no	yes	no	yes	yes	yes
<i>Stachys sylvatica</i>	yes	ucl	no	yes	yes	no	no	no	no
<i>Stellaria holostea</i>	yes	ucl	yes	yes	yes	no	no	yes	no
<i>Symphytum tuberosum</i>	yes	ucl	no	yes	yes	no	no	no	no
<i>Veronica triloba</i>	no	ucl	no	no	yes	yes	no	no	no
<i>Viola riviniana</i>	yes	ucl	yes	yes	yes	no	no	no	no

Tab. S3 - Potential functions of different plant species in SRCs, forest ecosystems and agroecosystems. (C) Species-level services and disservices in agroecosystems (3 sampling plots of 25 m² over 6 years). Note: ucl – unclassified (in share of native plants: species of uncertain residence status; in remediation: herbs).

Nature conservation -species richness	Share of native plants	Remediation	Collectables (edible and medical plants)	Pasture and fodder	Melliferous and pollination potential	Weed competition	Biological invasions	Toxicity	Allergenic plants
<i>Amaranthus retroflexus</i>	no	ucl	yes	no	no	yes	yes	yes	yes
<i>Anagallis arvensis</i>	no	ucl	yes	no	no	yes	no	yes	no
<i>Apera spica-venti</i>	no	ucl	no	yes	no	yes	yes	no	yes
<i>Atriplex patula</i>	ucl	ucl	yes	yes	no	yes	no	no	yes
<i>Avena fatua</i>	no	ucl	no	no	no	yes	no	no	yes
<i>Bromus sterilis</i>	no	ucl	yes	yes	no	no	no	no	yes
<i>Capsella bursa-pastoris</i>	no	ucl	yes	yes	no	yes	no	yes	no
<i>Cirsium arvense</i>	yes	ucl	yes	yes	yes	yes	no	yes	no
<i>Convolvulus arvensis</i>	no	ucl	yes	yes	yes	yes	no	yes	no
<i>Coryza canadensis</i>	no	ucl	no	no	no	yes	yes	no	yes
<i>Echinochloa crus-galli</i>	no	ucl	yes	yes	no	yes	yes	no	no
<i>Equisetum arvense</i>	yes	ucl	yes	no	no	yes	no	yes	no
<i>Erophila verna</i>	yes	ucl	yes	yes	no	yes	no	no	no
<i>Galium aparine</i>	yes	ucl	yes	yes	yes	yes	no	no	no
<i>Chenopodium album</i>	ucl	ucl	yes	yes	no	yes	no	yes	yes
<i>Iva xanthiifolia</i>	no	ucl	no	no	no	yes	no	no	yes
<i>Lamium amplexicaule</i>	no	ucl	yes	yes	yes	yes	no	no	no
<i>Lamium purpureum</i>	no	ucl	yes	yes	yes	yes	no	no	no
<i>Lathyrus tuberosus</i>	no	ucl	yes	yes	yes	yes	no	no	no
<i>Mercurialis annua</i>	no	ucl	yes	no	no	yes	no	yes	yes
<i>Persicaria lapathifolia</i>	yes	ucl	yes	no	no	yes	no	no	yes
<i>Setaria viridis</i>	no	ucl	yes	yes	no	yes	no	no	no
<i>Sinapis arvensis</i>	no	ucl	yes	yes	yes	yes	no	yes	no
<i>Stellaria media</i>	yes	ucl	yes	yes	yes	yes	no	yes	no
<i>Stenactis annua</i>	no	ucl	no	yes	no	no	yes	no	no
<i>Taraxacum sect. Ruderalia</i>	yes	ucl	yes	yes	yes	yes	no	no	yes
<i>Thlaspi arvense</i>	no	ucl	yes	no	no	yes	no	yes	no
<i>Tripleurospermum perforatum</i>	no	ucl	yes	yes	yes	yes	no	no	no

Nature conservation -species richness	Share of native plants	Remediation	Collectables (edible and medical plants)	Pasture and fodder	Melliferous and pollination potential	Weed competition	Biological invasions	Toxicity	Allergenic plants
<i>Veronica hederifolia</i>	yes	ucl	no	no	yes	yes	no	no	no
<i>Veronica persica</i>	no	ucl	no	no	yes	yes	no	no	no
<i>Viola arvensis</i>	no	ucl	yes	yes	yes	yes	no	no	no

Appendix 1 - References list for the tree and shrub species with remediation effects and harvest of edible plants.

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